



**Santee Cooper
Energy Efficiency/Demand Side Management
Programs**

Southeast Energy Efficiency Alliance

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Santee Cooper Energy Efficiency/Demand Side Management Programs



- **Overview of Santee Cooper**
- **Existing Programs**
- **Impact of Savings**
- **Future Considerations**

Overview of Santee Cooper



- **Customers Served (as of December 2006)**
 - **Direct Served Residential** **126,879**
 - **Direct Served Commercial** **29,583**
 - **Direct Served Industrial** **32**
 - **Municipalities**
 - **Bamberg**
 - **Georgetown**
 - **Central Electric Power Cooperative, Inc**
 - **Residential**
 - **Commercial**
 - **Industrial**
- **2006 Total Sales** **25,422 GWh**
- **System Peak Demand** **5,563 MW**

Santee Cooper Energy Efficiency/Demand Side Management Programs



- **Santee Cooper has offered to customers for over 25 years**
- **Santee Cooper makes their programs available through the state's electric cooperatives to their retail customers in addition to programs offered directly by the electric cooperatives**
- **Residential and Commercial Energy Efficiency/DSM Programs and Industrial Curtailable Contract Demands total over 650 MW, resulting in a total reduction in summer coincident peak demand of approximately 450 MW**

Santee Cooper Residential Energy Efficiency/Demand Side Management Programs



<u>Program Name</u>	<u>Year Implemented</u>
Good Cents Home Program	1986
Good Cents Low Interest Loans	1982
Residential On-Site Energy Audits	1986
On-Line Energy Audits	2002
Weatherization Project	2005
Market Compact Fluorescent Bulbs	2006
H ₂ O Advantage Hot Water Heater (Closed)	1990
Net Billing	2007
Energy Efficiency/Conservation Advertisements	
Web Site	
Speakers Bureau	
Energy Educator's Institute	

Dollars spent/credits given on Residential Programs since 2002 have been in excess of \$34 million.

Santee Cooper Commercial Energy Efficiency/Demand Side Management Programs



<u>Program Name</u>	<u>Year Implemented</u>
Commercial Good Cents	1992
On-Site Energy Audits	1984
Promote LEED Certified Construction	2006
LED Traffic Signal Rate	2002
Thermal Storage	1994
Time of Use Rate	1987

Santee Cooper Industrial Demand-Side Management Offers



- **Interruptible Service**
 - First introduced in 1981
 - Interruptible on short notice for system emergencies and high power costs and limits placed on hours/days of interruption
 - Load under this rider is excluded from resource planning
 - Currently 422 MW under contract
 - Lower rate provided for the right to curtail
 - Since 2002, \$93.7 million provided in power cost savings to participating customers
- **Economy Power Service**
 - First introduced in 1994, 1st real-time rate in South Carolina
 - If and when available, fully interruptible
 - Load under this rider is excluded from resource planning
 - Based on hourly, real-time incremental cost of power
 - Currently 76 MW under contract

Santee Cooper Industrial Demand-Side Management Offers (cont.)



- **Off-Peak Service**
 - First introduced in 1981
 - If and when available, fully interruptible
 - Load under this rider is excluded from resource planning
 - Based on day-ahead estimates of hourly incremental cost of power
 - Currently 16 MW under contract
- **Standby Service**
 - First introduced in 1994
 - Provides standby or replacement service to customers having another source of power

Future Considerations



- **Expanding Loan Program to include Renewable Energy**
- **Purchasing High Efficiency Transformers**
- **Duct Sealing Program**
- **New/Expanded Energy Efficient Home Program**
- **Rebates for High Efficiency Heat Pumps, ACs and Water Heaters**
- **Low Income Weatherization**